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In the Specification:

Page 11, last paragraph:

-- In a typical near-infrared instrument, such as the ones described in the '787 and '476 patents, a limited number of discrete optical measurements are made at different wavelengths. When discrete optical measurements are made at **n** different wavelengths, there will be **n** first order terms having the form--

In the Claims:

1. (Amended) A method for calibrating a near infrared (NIR) measurement device to a subject, said method comprising the steps of:

- forming a data set comprising a plurality of optical measurement data terms for said NIR measurement device;
- augmenting said data set by forming cross-products terms using said data terms;
- forming a plurality of subsets having a first specified number of members randomly selected from said data set;
- evaluating each of said plurality of subsets against a set of reliable measurement results for said subject;
- selecting one of said subsets based on a preselected set of criteria related to said reliable measurement results; and
- using said selected set to form an optimal calibration for said device to said subject.

3. (Amended) The method of claim 1 wherein the step of forming a plurality of subsets [sets] further comprises the forming of subsets [sets] having at least one alternative specified number of members, said alternative number(s) unequal to said first number.

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